

Models of the Atom

Greek Model

- 400 B.C. (or somewhere about that time)

Greeks- _____

Dalton's Atomic Model

- early 1800's, John Dalton
- that all matter was composed _____

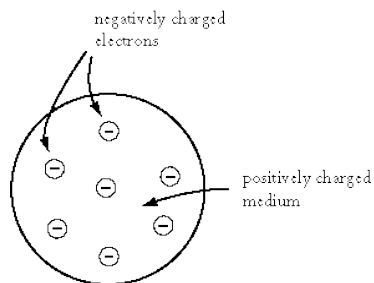
- that atoms were _____

- Consequently, his model explained that atoms were smaller spheres.
- Atoms go together in _____

Thomson's Atomic Model

- showed how he thought these electrons were arranged.
- showed that _____

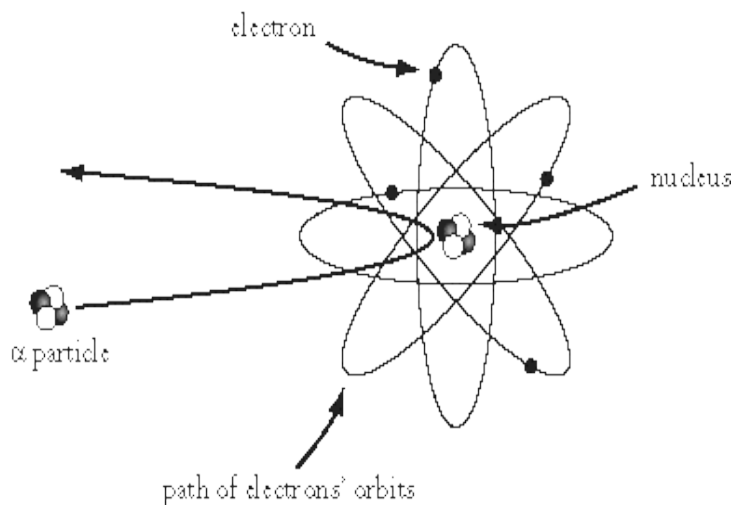
- model of the atom looks like _____



Rutherford's Atomic Model

- This model suggested that most of the mass of the atom _____

- called _____
- that the rest of the _____
- describes an atom as _____



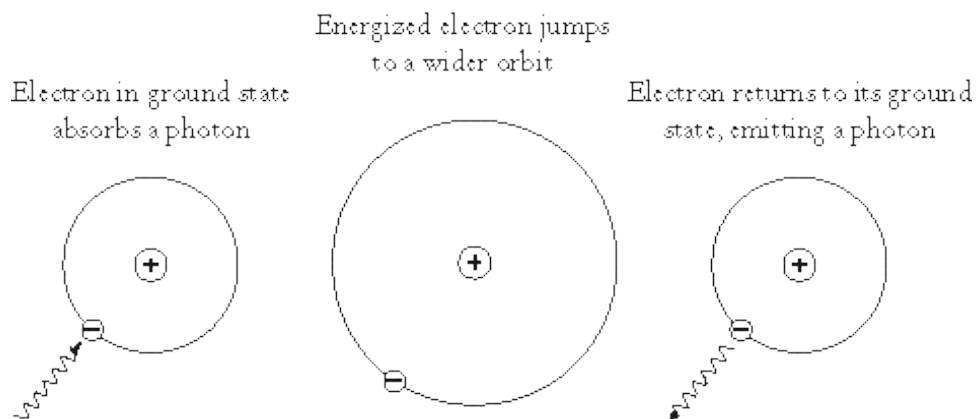
Bohr's Atomic Model

- explained that an atom _____

- This model suggested that the electrons _____

- Looked like a _____

Bohr's Model



Quantum Mechanical Model of the Atom

■ fundamental ideas of _____

■ electrons do not actually _____

■ the exact location of an electron in an atom _____

only the _____

present day model describes an atom as _____

electron **orbitals** represent _____

location of an electron depends _____

Electrons are arranged in energy levels within a given electron cloud_____

such that the electrons with the lowest energy _____

and the electron with the highest energy _____

